VOL. X.

KINGMAN, ARIZONA, JUNE 25, 1892.

NO. 34.

Highest of all in Leavening Power .- Latest U. S. Gov't Report.

ABSOLUTELY PURE

Luckenback Process.

By FRANK HALL

This method of pulverizing ores and isties of hard rock, which is now atmeting much attention from mining men, was invented in New York in 1881by Frederick A. Luckenbach & Son, th experienced mechanical engineers wha natural penchant for invention. Tatil a recent date it was not especially applied to the reduction of gold and sittes to that end shall have been matured, not adapted to the extraction of silver except as it may exist in chemical com-lination with gold.

Since 1882 it has been extensively d in Europe and the United States by pulverizing raw flints for china-ware, mo iron and red oxide of iron for mints, broken glass for soaps, portland ments, tale, phosphate rock, charcoal, iste, magnetic sand, silex, etc., and by he rapidity and perfection of its work sperceding other appliances. Recogng the demand for its employment the Western mining fields, the Messrs. ekenbach came to Denver early in the ent year and here established a plant, dding a "hydrogen fine gold saving ap" for the effective amalgamation of ree gold ores, which it is claimed expiverizer, from 90 to 95 per cent. of the cious contents of such ores. They are set yet prepared to extract silver, but since about March 1st have been engaged in preparing, in connection with free milling gold ores, sample lots of from me to five tons of dry silver bearing minands for concentration, lixivation chloriwithout such drawings it is difficult to mountain trails and roads. t forth the mechanical construction in manner to be clearly comprehended the average reader, hence we shall creby results are obtained.

thick every particle of the ore must pass overflow carries off the refuse matter prisoned twice for horse stealing. "Dum- You fatallists can make the most of this. them to become very hot, which, into tanks for further analysis it desired. my," as Harley is dubbed, cannot read -Creede Candle.

supplemented by the concussion—in gold ores-scours and liberates the coated or rusty atoms so that when passed into the hydrogen amalgamating trap containing a large bath of quicksilver, which is kept clean and healthy by hydrogen gas, the largest possible saving of gold is effected.

In most other methods of crushing and pulverising, the wear of machinery is very great, and consequently very expensive. Here, however the only part subject to any material wear are two small iron tubes, through which the steam currents charged with ore continuously pass to the point of concussion. But the cost of these tubes is only ten cents a pair, each weighing one pound, and lasting from six to nine hours. They may be taken out and replaced within three minutes. Again the cost of strong rock or brick foundations for other pulverizers is a material factor in their construction. Here no foundation but a level floor of boards or earth is required. The pulverizers, always in connected pairs, though they may be operated singly weigh only 2,000 pounds per pair, each occupying no greater space than a medium-sized base burner stove, and the fornace for superheating the steam about the same. In the latter, ordinary soft coal, wood or coke may be used. No large or expensive buildings are needed.

Mr. Luckenbach advises that when a large plant to reduce 100 to 200 tons, a day is desired, a set of Cornish rolls be added to the Dodge cracker. While not absolutely necessary, it would facilitate rapid pulverizing.

assion, roasting, etc., and testing their able loss of quick-silver—is 50 cents to began to be rumors of gold discoveries ne. Since its cheapness and its ef. \$1 50 per ton, according to the capacity in the foothills of the Sierra Nevadas, of the milling power employed. Each as have been continuous, and all who pair of mills will reduce ten tons in town showing small parcels of gold dust. are witnessed its operation express sur- twenty-four hours. It may be increased Then came an era of wild speculation and e at its simplicity and evident super- to any extent by the duplication of maty over any other existing form of chines, the cost of the latter being about setion. Since its introduction here \$2,500 a pair, exclusive of ore-breaker teral parts of the original process have and steam power. The hydrogen gold n materially changed, and thereby saving trap, with appliances, weighs scidedly improved, but the sectional 1,000 pounds; the whole apparatus made maings are not yet completed, hence in small sections so that if necessary it we are unable to illustrate the apparatus, may be packed on mules or over rough

required to run a plant of fifty tons ca- In the first six months of 1849, 15,000 pacity; one on the breaker, another at souls were added to the population of at now attempt anything beyond a gen- the pulverizer and an engineer. After and review of the metalluraical branch the ore is delivered to the pulverizer no further attention is needed. The dry over 25,000. To begin with, there is no grinding, products designed for other treatment seponderous, heavy or complex ma- than amalgamation are conveyed by houses of one story, more commonly in The entire scheme is the per- pneumatic tubes into a dust chamber board shantes and canvas tents, pitched ction of simplicity, combined with especially provided for them; those in- in the midst of sand or mud and various stness and durability. The ore is tended for the hydrogen amalgamators rubbish and strange filth and fleas, and ed in an ordinary Dodge cracker, are automatically converted into pulp they slept on rude cots, or on "soft med and fed into a receiver near the which descends by its own gravity from planks" under horse blankets, on tables, of a pulverizer, about eighteen feet a point ten or twelve feet above the pul- counters, floors, on trucks in the open the floor, whence it decends in veriser into the trap, which is composed air, in bunks braced against the weather carfully regulated volume of supply into of two deep circular pans about three oblong iron receptacle, where it feet in diameter, fitted with screws and so they tossed and scratched and swore ight in contact with two small but setting one within the other about one ful opposing jets of super-heated and one-half inches apart. Beneath m, which reduces it to any required them is a large body of quick-silver, m, even to an inpalpable powder, from beneath and through which the ring it dry and hot, the degree being pulp is injected in fully subdivided curplated by a small hand valve on the rents, thus securing direct control of all, olde. After being fed into the rock- even the infinitesmal particles of flour sker the entire operation is automatic, or float gold with the mercury. Thus it ren county (O.) criminal court. Harley we is very little noise, no jarring, no is almost impossible to conceive how Dodds, a deaf mute, aged about thirty, fiction, except as hereinafter described. any of the gold can escape. Indeed, the he principle consists in subjecting the saving seems to be complete. The pans brother Milton Dodds, last February, erals to the two opposing currents of have no motion whatever. Instead of The deaf man had served two terms in berheated steam just mentioned, being cast into the top and sides as in the penitentiary for stealing. The fratteby the particles are thrown with other methods of panning and grinding ricide was living with a notorious woforce against each other and thus with mullers and pulps, the pulp enters man in the hamlet of Mount Holly, near after his murder and the last night of his pletely disintegrated. The high tem- from the bottom. The interval between Waynesville. She claimed to be his life slept in room 30 at the Tortoni. In ature of the steam currents through the pans being filled with water, the wife, but was not. She has been im- newspapering "30" means "the last."

other states. Each day brings numerous They cordially invite applicants to super- set free. vise the milling of their ores .- Mining Age, Salt Lake City, Utah.

The Baby and the Savage.

In the bone caves of the south of France have been found figures of reindeer, mammoths and men scratched on horn or ivory, and evidently executed by artists contemporary with the Elephas primi-genius. The men are represented with short, bent legs, and seem to stand or walk in a stooping manner, with the body bowed slightly forward from the hips. Now press your hand down the back of any infant of under ten months old and feel the spine at the loin or lumbar region, where in the adult modern man the back is hollow or concave. You will observe that in the babe it is convex like that of a quadruped (a ten mouthsold baby is practically a quadruped), and though the child can perhaps get on its legs with the support of a chair, it does not straighten its thighs and stand upright, but is bent forward in the same posture of the cave dweller whose portrait has come down to us from the age just succeeding the last glacial epoch. If the support is removed the child falls forward, and again becomes a pseudoquadruped.-Blackwood's Magazine.

San Francisco in 1848.

In 1848, just before gold had been discovered in California, the city of San Francisco had a population of 850 all The cost of reducing and amaigamating told and consisted of about 200 wooden free gold ores-there being no appreci- buildings. In the spring of 1848 there ently actual miners appeared in extravagant prices. Common laborers were getting ten dollars a day and ordinary mechanics twenty dollars; men who had lived on five dollars a month now spent hundreds; men who had been idlers formerly were now among the most industrious, and men who had never before wasted a day became loungers and gamblers. The mad scramble As to manual labor, but three men are for wealth manifested itself on all sides. San Francisco, and by the end of the year the Pacific coast metropolis had

And how did they all live? In frame boarding, forty of them in one loft; and and laughed and sang and skylarked .-Edward Rosewater's Omaha Address.

A Murder Case That's a Puzzier.

A most remarkable, if not unexampled murder case soon comes up in the Warwill be put on trial for murdering his

Mr. Luckenbach recommends the sec- or write, nor does he know one single tional safety water tube boiler because of letter of the mute's alphabet. Thus he its durability, safety and economy. The has never been able to give his version firm is prepared to furnish plants of any of the story, and the great difficulty of capacity. The pulverizers have been in the lawyer appointed to defend him will operation for the past three months, be to get some one who can interpret testing sample lots of ore from this and the tew signs by which he makes his wants known. His mother can undervisitors to examine them. Many appli- stand some, but she would be a prejucations have been received and negotia- diced witness in his tavor, and the court tions are pending for several large plants could not accept her. The law presumes Interest Paid on Fime Deposits. in Utah, Montana, Wyoming, Colorada, that he shall have knowledge of the tes-Idaho and New Mexico. The managers timony against him, and testify in his make it an invariable rule to test all ores own defense. How this can be done is sent them with a view to discovering a puzzle. He certainly knows no more whether the method of treatment is than an animal, and his conviction by a tion for machines will be entertained. fense might be reversed and the man John S. Kolar.

Fencing Out Rabbits.

An extraordinary story illustrating the difficulty of fencing against rabbits comes estate of 13,000 acres determined to fence in the whole of the land, and to destroy the rabbits inside. They erected a stone wall 5 feet six inches high from the surface of the soil and sunk 18 inches beneath, with a board projecting 6 inches outward from the top. But when the rabbits had been cleared off inside, starying animals managed to get over from the outside, to feed on the grass which had grown nicely. Next, the proprietors lowered the height of the stone wall, and put wire netting 2 feet six inches high, upright on top. The cuuning little rodents however, ran up the stone work, and, using the meshes of the netting as steps, climbed over the wire work. A third trial was made, the wire netting being made to slant outwards at an angle of 45 degrees, and this proved successful, as the rabbits were unable to climb the leaning wire. Over £3,000 had been spent when success was at last obtained. -Exchange.

His Shocking Blunder.

He is one of those youths who seem brighter than they really are. He had never clerked in a dry goods and furninging store, but his favorable appearance and indorsements concerning his honesty secured him a position. He was to act as assistant to the gentleman in charge of the ladies' hosiery department. The second day after he begun work the clerk in charge of the counter was ill, nd failed to put in an appearance. The new man felt that be was fully competent to run the business.

A very beautiful young lady approached him and remarked:

"I bought some stockings of the gentleman in charge of this department yesterday, and, if you please, I should like to change them."

There was something about the young lady's beauty that facinated and bewildered him as he hastily responded:

"Er-yee'm; but I presume you had better not attempt to here. The ladies' toilet and waiting rooms are on the next floor above."

Of course, his incivilty was reported, and he was discharged, and all because he was so impressible and absent minded.-Chicago Times.

A letter received in Tucson early this week from Ariyaca containing the information that two Mexicans had been found hanging from the limb of a tree attended to at satisfactory rates. near there a short while since. Considerable cattle have been stolen in that section of the country for some time past and it is believed that the two men who met such a fate were suspected of doing the stealing and were put out of the way. If such belief was well grounded, it was, perhaps the most effective way to make a long programme short, and at the same time set a wholesome example for others, who might want to make cattle stealing a means of making a comparatively easy living. Arizona is practically free from such characters, and a little hempstretching party, as above, will have a tendency to keep her so.-Stockman.

Bob Ford wore an opal ring which had been taken from a Kansas City man ARIZONA CENTRAL BANK.

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